



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

828 SEVENTH STREET • EUREKA, CALIFORNIA 95502

OFFICE 707-443-5018 FAX 707-443-5731

Website: www.hbmwd.com

CERTIFIED WATER LOSS AUDIT VALIDATION REPORT

PART A - PROVIDED BY THE VALIDATOR

Audit Information:

Utility: HBMWD

PWS ID: 1210013

System Type: Potable

Utility Representation: Samantha Ryan

Audit Period: Calendar 2018

Validation Date: 9/26/19

Sufficient Supporting Documents Provided: Yes

Call Time: 10am

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 62

Data Validity Bank (Level): Level III

ILI: N/A*

Apparent Loss: 28.33 gal/conn/day

(Infrastructure Leakage Index)

Real Loss: N/A* gal/conn/day

Non-Revenue Water as Percent of Cost of Operating System: 0.1%

**Several performance indicators are not applicable to wholesale distribution systems or to very small (<3,000) distribution grids.*

Certification Statement by Validator:

*This water loss audit report has been Level 1 Validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34. All recommendations on Volume Derivation and Data Validity Grades were incorporated into the water audit. **Yes***

If all recommendations regarding Volume Derivation and Data Validity Grades were NOT incorporated into the water audit, provide explanation below:

Validator Information:

Water Audit Validator: Chris Harris

A handwritten signature in black ink, appearing to read "Chris Harris", is written over a horizontal line.

Validator Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA



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CERTIFIED WATER LOSS AUDIT VALIDATION REPORT, CON'T

PART B - PROVIDED BY THE UTILITY/AGENCY

Water Supplier Name: Humboldt Bay Municipal Water District

Water Supplier ID Number: 1210013

Water Audit Period: Calendar 2018

Water Audit & Water Loss Improvement Steps:

Utility/Agency to provide steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed the annual validated water audit:

- In CY 2015, Techite pipe replacement grant improved piping on mainline piping and residential piping
- In CY 2015, repaired 3 mainline leaks
- In CY 2016, compared Ranney Collector Meters (A&B) together and separately to TRF meter (E)
- In CY 2016, repaired 3 mainline leaks
- In CY 2017, changed reporting style by treating municipal customers as water exported and retail customers as authorized consumption (previously all authorized consumption)
- In CY 2017, no mainline leaks
- Yearly, verify daily SCADA data prior to submitting, compare to monthly meter reads yearly
- In CY 2018, new billing and accounting software was installed. This is a much more robust system that tracks reads and helps identify potential leaks more readily.
- In CY 2018, the Collector 2 meter was calibrated and a 5-year calibration cycle established.

Future Plans to Improve

- For CY 2019, the Turbidity Reduction Facility (TRF) meter is scheduled for calibration. Will establish a 5-yr calibration cycle at that time.

Certification Statement by Utility Executive:

This water loss audit report meets the requirement of California Code of Regulations, Title 23,

Executive Name and Position (Print)

John Friedenbach - General Manager

Executive Signature and Date

John Friedenbach, General Manager 9/30/19